

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of

Atty. Docket

PETRUS H. C. MAGNEE ET AL

PHNL 010025

Serial No.:

Filed: CONCURRENTLY

Title: SEMI-CONDUCTOR DEVICE

Commissioner for Patents  
Washington, D.C. 20231

PRELIMINARY AMENDMENT

Sir:

Prior to calculation of the filing fee and examination,  
please amend the above-identified application as follows:

IN THE CLAIMS

Please amend the claims as follows:

3. (Amended) Device as claimed in claim 1, wherein all contact parts can be connected to the side of the device remote from the substrate.
5. (Amended) Device as claimed in claim 1, wherein the collector contact is connected to the collector via a buried N-region with low resistance which extends both laterally and vertically, wherein the lateral part is enclosed by the collector.

6. (Amended) Device as claimed in claim 1, wherein the base is arranged vertically relative to the collector.

7. (Amended) Device as claimed in one claim 1, wherein the base contact makes contact with the base via a fourth and a fifth region consisting of semi-conducting material.

8. (Amended) Device as claimed in claim 1, wherein the emitter is arranged vertically relative to the base and which makes contact with the other side of the base relative to the collector.

9. (Amended) Device as claimed in claim 1, wherein the emitter is electrically insulated from the semi-conductor regions which connect the base to the base contact.

10. (Amended) Device as claimed in claim 1, wherein in the first region, and completely enclosed hereby, a sixth region, the centre line of which extends in the form of a polygon, is arranged substantially vertically under the second region.

11. (Amended) Device as claimed in claim 1, wherein a plurality of assemblies of second and third regions lying mutually adjacently are arranged on one or more first regions in a pattern wherein the space between the second and third regions is minimized.

REMARKS

The foregoing Preliminary Amendment to claims 3, and 5-11 was made solely to avoid filing the claim in the multiple dependant form so as to avoid the additional filing fee.

The claims were not amended in order to address issues of patentability and Applicant respectfully reserves all rights she may have under the Doctrine of Equivalents. Applicant furthermore reserves her right to reintroduce subject matter deleted herein at a later time during the prosecution of this application or continuing applications.

Respectfully submitted,

By 

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## APPENDIX

3. (Amended) Device as claimed in claim 1 ~~and/or 2~~, wherein all contact parts can be connected to the side of the device remote from the substrate.

5. (Amended) Device as claimed in ~~one or more of the~~ foregoing claims 1, wherein the collector contact is connected to the collector via a buried N-region with low resistance which extends both laterally and vertically, wherein the lateral part is enclosed by the collector.

6. (Amended) Device as claimed in ~~one or more of the~~ foregoing claims 1, wherein the base is arranged vertically relative to the collector.

7. (Amended) Device as claimed in ~~one or more of the~~ foregoing claims 1, wherein the base contact makes contact with the base via a fourth and a fifth region consisting of semi-conducting material.

8. (Amended) Device as claimed in ~~one or more of the~~ foregoing claims 1, wherein the emitter is arranged vertically relative to the base and which makes contact with the other side of the base relative to the collector.

9. (Amended) Device as claimed in ~~one or more of the~~  
~~foregoing claims~~ 1, wherein the emitter is electrically  
insulated from the semi-conductor regions which connect the  
base to the base contact.

10. (Amended) Device as claimed in ~~one or more of the~~  
~~foregoing claims~~ 1, wherein in the first region, and  
completely enclosed hereby, a sixth region, the centre line  
of which extends in the form of a polygon, is arranged  
substantially vertically under the second region.

11. (Amended) Device as claimed in ~~one or more of the~~  
~~foregoing claims~~ 1, wherein a plurality of assemblies of  
second and third regions lying mutually adjacently are  
arranged on one or more first regions in a pattern wherein  
the space between the second and third regions is minimized.